

RD Sharma
Solutions

Class 7

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OBJECTIVE TYPE QUESTIONS

Mark the correct alternative in each of the following:

- The ratio of the perimeter (circumference) and diameter of a circle is
(a) π (b) 2π (c) $\frac{\pi}{2}$ (d) $\frac{\pi}{4}$
- The ratio of the area and circumference of a circle of diameter d is
(a) d (b) $\frac{d}{2}$ (c) $\frac{d}{4}$ (d) $2d$
- The cost of fencing a circular garden of radius 21 m at ₹ 10 per metre is
(a) ₹ 1320 (b) ₹ 132 (c) ₹ 1200 (d) ₹ 660
- If the diameter of a circle is equal to the diagonal of a square, then the ratio of their areas is
(a) 7:1 (b) 1:1 (c) 11:7 (d) 22:7
- A circle is inscribed in a square of side 14 m. The ratio of the area of the circle and that of the square is
(a) $\pi:3$ (b) $\pi:4$ (c) $\pi:2$ (d) $\pi:1$
- How many times should a wheel of radius 7 m rotate to go around the perimeter of a rectangular field of length 60 m and breadth 50 m?
(a) 3 (b) 4 (c) 5 (d) 6
- The minute hand of a clock is 14 cm long. How far does the tip of the minute hand move in 60 minutes?
(a) 22 cm (b) 44 cm (c) 33 cm (d) 88 cm
- The cost of fencing a semi-circular garden of radius 14 m at ₹ 10 per metre is
(a) ₹ 1080 (b) ₹ 1020 (c) ₹ 700 (d) ₹ 720
- The area of a square is equal to the area of a circle. The ratio between the side of the square and the radius of the circle is
(a) $\sqrt{\pi}:1$ (b) $1:\sqrt{\pi}$ (c) $1:\pi$ (d) $\pi:1$
- If A is the area and C is the circumference of a circle, then its radius is
(a) $\frac{A}{C}$ (b) $\frac{2A}{C}$ (c) $\frac{3A}{C}$ (d) $\frac{4A}{C}$
- The area of a circle of circumference C is
(a) $\frac{C^2}{4\pi}$ (b) $\frac{C^2}{2\pi}$ (c) $\frac{C^2}{\pi}$ (d) $\frac{4C^2}{\pi}$
- The circumference of a circle is 44 cm. Its area is
(a) 77 cm^2 (b) 154 cm^2 (c) 208 cm^2 (d) 144 cm^2
- Each side of an equilateral triangle is equal to the radius of a circle whose area is 154 cm^2 . The area of the triangle is
(a) $\frac{7\sqrt{3}}{4} \text{ cm}^2$ (b) $\frac{49\sqrt{3}}{2} \text{ cm}^2$ (c) $\frac{49\sqrt{3}}{4} \text{ cm}^2$ (d) $\frac{7\sqrt{3}}{2} \text{ cm}^2$

14. The area of a circle is $9\pi \text{ cm}^2$. Its circumference is
(a) $6\pi \text{ cm}$ (b) $36\pi \text{ cm}$ (c) $9\pi \text{ cm}$ (d) $36\pi^2 \text{ cm}$
15. The area of a circle is increased by 22 cm^2 when its radius is increased by 1 cm. The original radius of the circle is
(a) 6 cm (b) 3 cm (c) 4 cm (d) 3.5 cm
16. The radii of two circles are in the ratio 2 : 3. The ratio of their areas is
(a) 2 : 3 (b) 4 : 9 (c) 3 : 2 (d) 9 : 4
17. The areas of two circles are in the ratio 49 : 36. The ratio of their circumferences is
(a) 7 : 6 (b) 6 : 7 (c) 3 : 2 (d) 2 : 3
18. The circumferences of two circles are in the ratio 3 : 4. The ratio of their areas is
(a) 3 : 4 (b) 4 : 3 (c) 9 : 16 (d) 16 : 9
19. The difference between the circumference and radius of a circle is 37 cm. The area of the circle is
(a) 111 cm^2 (b) 148 cm^2 (c) 154 cm^2 (d) 258 cm^2

ANSWERS

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| 1. (a) | 2. (c) | 3. (a) | 4. (c) | 5. (b) | 6. (c) | 7. (d) |
| 8. (d) | 9. (a) | 10. (d) | 11. (a) | 12. (b) | 13. (c) | 14. (a) |
| 15. (b) | 16. (b) | 17. (a) | 18. (c) | 19. (c) | | |